Precision Measuring Instruments Supporting Medical Devices and Pharmaceutical Industries

The followings are application examples for Mitutoyo's precision measuring instruments.										
			Mitutoyo's Precision Measuring Instruments							
Field of Application		Application	Coordinate Measuring Instruments	Vision Measuring Instruments	Form Measuring Instruments	Optical Measuring Instruments	Sensor Systems	Testing Instruments	Scales	Small Tools
						-		1		—
Diagnostic	Scarrie	Measurement of gantries's large bearings	•							•
		Measurement of bed frame dimensions	•							•
		Bed positioning control			_				•	
	Ultrasonic medical diagnosis system	Dimensional measurement of component parts								
	equipment	Dimensional measurement of component parts	•	•		•		•		•
Medical Treatment Devices	Proton beam medical treatment equipment	Form and dimensional measurement of boluses and collimaters	•							•
	Injection syringes	Form measurement of syringes	•		•					
		Form measurement of plunger parts		•	•	•				•
		Dimensional and angle measurement of injection needle tips				•	•			•
		Hardness measurement of cannulas		•				•		
	Suture needles	Dimensional and angle measurement of needle tips			•		•			•
	Artificial hip and knee joints	Dimensional and form measurement of heads and liners	•	•	•			•		(a)
	Artificial bones	Dimensional and form measurement of fixation and connection plate parts for heads and liners	•		•					•
	Dental implants	Measurement of fixtures and abutments						•		•
	Catheters	Outside diameter measurement								(a)
	Charles	Elasticity measurement Dimensional and hardness								
	Stents	measurement of parts Form and thickness								
	Contact lenses	measurement of dental unit								
		frames Dimensional measurement								—
	Dental instruments	of hand pieces Dimensional measurement								
	Electric and	of drills Hardness measurement of								
		metallic materials Dimensional measurement								
	Hearing side	of component parts Dimensional measurement								
	Pacamakors	of component parts Dimensional measurement								
		of component parts Dimensional and hardness measurement of parts	•							•
	Blood drawing, fluid and blood transfusion instruments	Dimensional and form measurement of joints								•
	Tablets	Dimensional measurement		•		•				•
		Hardness measurement of tablets						•		
	Capsules	Dimensional measurement		•						•
	Antiphlogistic analgetic for external use	Thickness and surface roughness measurement			•		•			•
	Containers and ampules	Dimensional measurement	•							•
al molds	tablet press	Dimensional, form and hardness measurement	•	•		•	•			
Metal	products	Dimensional, form and hardness measurement	•	•	•	•	•	•		•
Remarks:										



Names of the pecision measuring instruments presented in this leaflet are classified into the products mentioned above.

Coordinate Measuring Instruments: Coordinate Measuring Machines, Portable Coordinate Measuring System Form Measuring Instruments: Surface Roughness Measuring Instruments: CNC Form Measuring Instruments, Form Measuring Instruments, Roundness Measuring Machines Optical Measuring Instruments: Optical Measuring Instruments, Profile Projecters, Measuring Microscopes, Surface Measuring Instruments Sensor Systems: Laser Scan Micrometers, Liternatic

Testing Instruments: Hardness Testing Instruments



Whatever your challenges are, Mitutoyo supports you from start to finish.

by comprehensive services that ensure your staff can make the very best use of the investment

neasurement challenges in-house on a sub-contract



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Note: Product illustrations are without obligation. Product descriptions, in particular any and all technical specifications, are only binding when explicitly agreed upon.

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Introduction to Precision Measuring Instrument Solutions

— Medical Device and Pharmaceutical Industries —



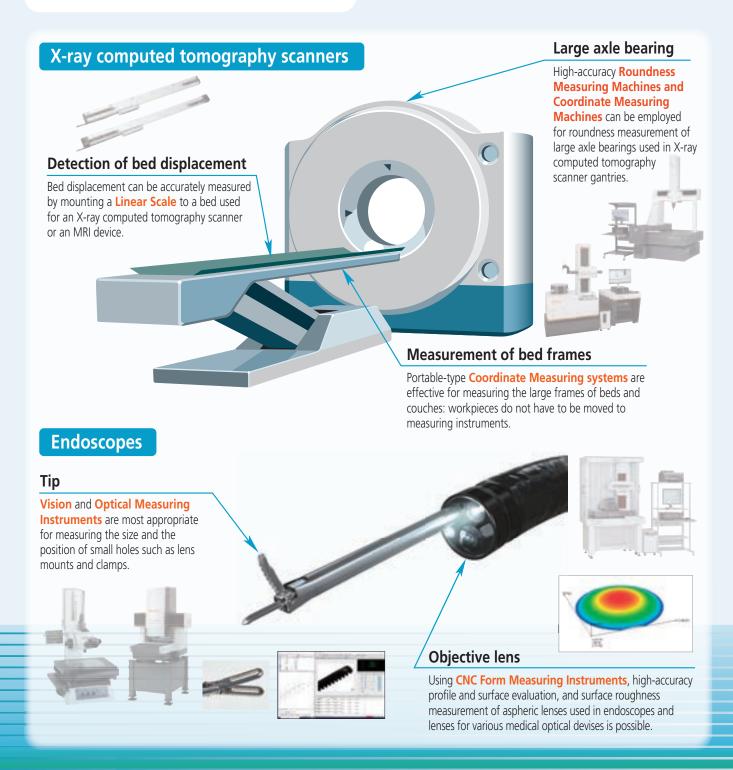




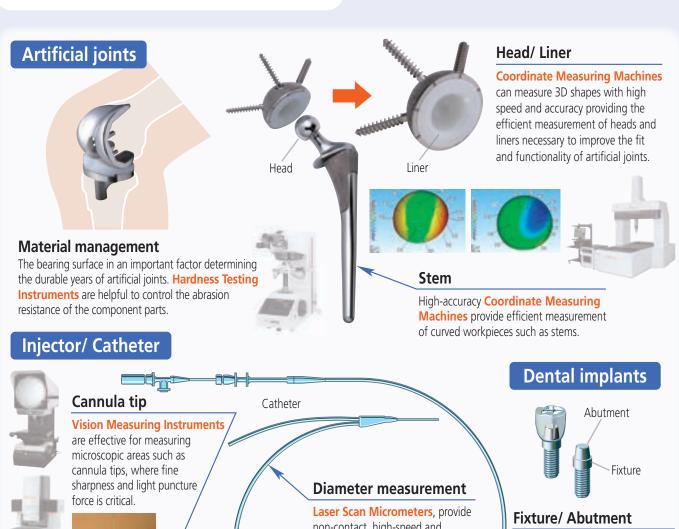
Mitutoyo Metrology Solutions

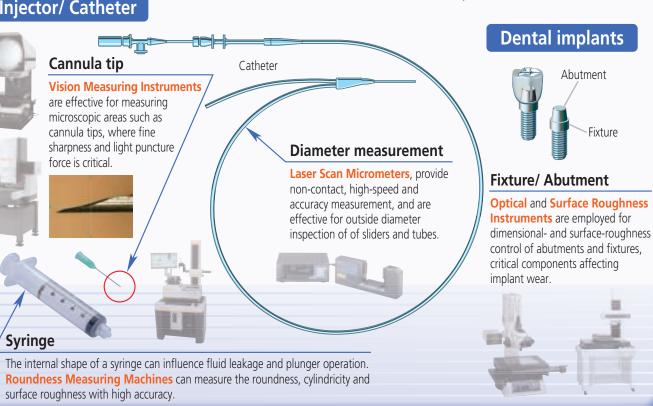
— Support for medical and pharmaceutical fields —



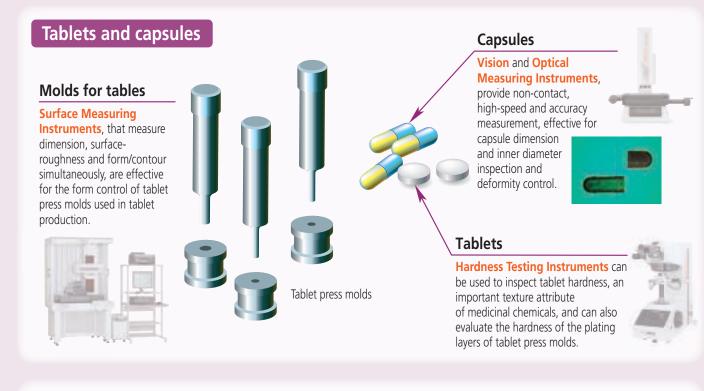




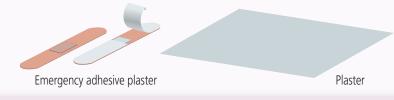




For the Pharmaceutical **Goods Field**



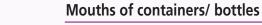




The **Litematic** is very appropriate for measuring deformable workpieces. Measurement of thickness is

accomplished with low measuring force, and minute impact on the base.





Optical and **Form Measuring Instruments** are effective for the measurement of screws thread form, bottle diameters and container openings, where control of air-tight seals is critical. Surface Roughness instruments can be used to inspect openings where surface roughness can affect the sealed state.





Small Tools (calipers, micrometers, dial indicators, etc.) and Linear Gages are helpful for dimension and form measurement of various workpieces such as materials, component parts and finished products.

